KURABO
Advanced Technology Division
eye COMPANY

Infrared Thickness Meter

RX-2000L

For laminated films of flexible packages: only polyurethane-type adhesives can be measured selectively

The infrared method is capable of measuring adhesive thickness only

Less susceptible to base films and printing inks

Real-time measurement
Non-contact and non-destructive

Features

■Reduce quality defects

・The management of the coating weight

No complicated and time-consuming procedure, like the weighing-scale method. By using online and non-contact measurement to measure the coating weight, the operator can make appropriate adjustments in time.

・Adhesive mixing ratio confirmation

Mixing ratios and mixing status can be confirmed by checking the measurement values of RX-2000L.

・Adhesive reactive confirmation

It is especially suitable for controlling adhesives with rapid reaction times, ensuring that the films are laminated before the reaction occurs.

■Improve production efficiency

Reduce the time required for pre-production checks.

■Monitor production lot status

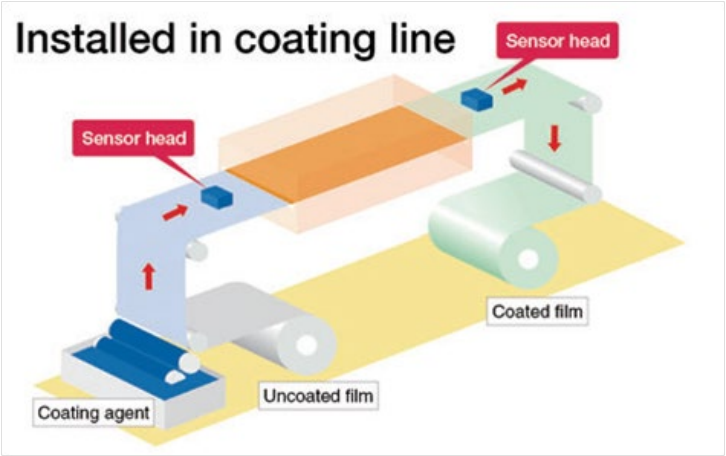
Production status can be monitored since the measurement is done online.

■Save cost

Detect quality problems in time and reduce lot loss.

RX-2000L

Application and Measurement Principle



【Example of measurement screen】

Online systems are also available

【Principle of measurement】

When an object is irradiated with infrared light, an infrared absorption occurs at a specific wavelength depending on the film thickness and coating amount. By capturing the strength of this absorption with a detector, the film thickness and coating amount can be calculated from a pre-determined calibration curve formula. Additionally, since the RX-2000L only measures one particular ingredient contained in the adhesive, it is possible to identify any mixing ratio failures of the adhesive ingredients.

Specification

Measurement Specifications	
Photometric type	Infrared absorption spectroscopy
Spectroscopy	Rotating filter (six filters can be mounted)
Measuring distance	25 mm（from the lower surface of the main unit)
Measurement spot	Parallel type: 15 × 30 mmf (approx.) Focus type: 5×8 mmf (approx.)
Main Unit Specifications	
Sensor head	Outer dimensions : 230 mm (W) × 90 mm (H) × 134 mm (D) （Excluding protruding parts)
	Weight : 3.5 kg
Relay unit	Outer dimensions : 250 mm (W) × 113 mm (H) × 140 mm (D) （Excluding protruding parts)
	Weight : 3.0 kg
	Power supply : AC 100 - 240 V ± 10 % 50/60 Hz 30 VA (Including sensor head)
External output	Digital Output (to the upper level PC) Specified with RS422A (9600BPS)
Operating temperature	5～40℃（No dew condensation, use cooling air above 35℃)

KURABO
Inspection & Measurement Systems Department
14-30, Shimokida-Cho, Neyagawa-City, Osaka, Japan
TEL +81-72-812-5208 FAX +81-72-812-5265
Website http://www.kurabo.co.http://www.kurabo.co.jp/el/ir/thickness/

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